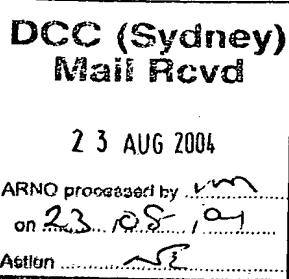


PATENT COOPERATION TREATY

From the:
INTERNATIONAL SEARCHING AUTHORITY

To:

Davies Collison Cave
GPO Box 3876
SYDNEY NSW 2001



PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Applicant's or agent's file reference 12262441	Date of mailing (day/month/year) 20 AUG 2004	FOR FURTHER ACTION See paragraph 2 below
International application No. PCT/AU2004/000798	International filing date (day/month/year) 18 June 2004	Priority date (day/month/year) 20 June 2003
International Patent Classification (IPC) or both national classification and IPC .. Cl. 7 C07K 14/62, C07K 14/64, C07K 14/65, C07K 14/575, A61K 38/22, A61K 38/28, A61K 38/30, A61P 3/10, A61P 15/00, A61P 15/08, A61P 15/14, A61P 19/00, A61P 35/00		
Applicant HOWARD FLOREY INSTITUTE OF EXPERIMENTAL PHYSIOLOGY & MEDICINE et al		

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the IPEA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaaustralia.gov.au Facsimile No. (02) 6285 3929	Authorized Officer DAVID GRIFFITHS Telephone No. (02) 6283 2628
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WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/AU2004/000798

Box No. I Basis of the opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material
 a sequence listing
 table(s) related to the sequence listing
 - b. format of material
 in written format
 in computer readable form
 - c. time of filing/furnishing
 contained in the international application as filed.
 filed together with the international application in computer readable form.
 furnished subsequently to this Authority for the purposes of search.
3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

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**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/AU2004/000798

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
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1. Statement

Novelty (N)	Claims 1 - 49	YES
	Claims	NO
Inventive step (IS)	Claims 1 - 49	YES
	Claims	NO
Industrial applicability (IA)	Claims 1 - 49	YES
	Claims	NO

2. Citations and explanations:

The present application relates to monomeric cyclic analogues of the B-chain of relaxin superfamily proteins that bind to a biological target of the relaxin superfamily protein and modulate the activity of the target. Methods of making the analogues and their uses are also claimed.

This opinion is based on the following citations:

- D1. *International Journal of Peptide & Protein Research* (1982), 20(3), 207-17;
- D2. *Chem. Pept. Proteins, Proc. USSR-FRG Symp.*, 3rd (1982), Meeting Date 1980, 327-35;
- D3. *Doklady Bolgarskoi Akademii Nauk* (1976), 29(11), 1641-4.

Documents D1 and D2 discloses cyclic insulin B-chain derivatives for use in semi-synthesis; D3 discloses, amongst other things, a dithiolated cross-linked cyclic monomer of the insulin B-chain in the context of structure elucidation. None of the citations discloses the derivatives binding to biological targets to result in biological activity. The present claims must therefore be acknowledged as being novel and inventive over the citations.

All claims meet the criterion of being industrially applicable.

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